

## Appendix G

### CURRENT PROJECTS ASSOCIATED WITH IRL SWIM PROGRAM

	<i>Project Name</i>	<i>DESCRIPTION</i>	<i>Funding mechanism</i>
<b>Basin Study &amp; Assessment</b>			
Watershed			
	Manatee Pocket Study	Study of Manatee Pocket stormwater inflows, recommendations for treatment	SWIM Funding
	Survey Work For HSPF	Cross sections of C-24 and the South Fork	
	C-24/North St. Lucie Basin Assessment	Basin assessment for C-24 and North St. Lucie basins	
	Martin Co. GIS	GIS work to support stormwater management program	
	NRCS Co-op Study	Monitoring Floridan use	
	St. Lucie Watershed Assessment	C-25,C-23,C-44, Tidal St. Lucie, Basins 1,4,5,6	
	Martin Co. GIS		SWIM Funding
	Kitching Creek Headwaters WQ Improvement	Two part study: 1) to evaluate alternative plans; and 2) develop a detailed engineering design for improving the quality, flow and timing of water into Kitching Creek	
	Nutrient Load Monitoring		SWIM funding
<b>Research</b>			
Estuary			
	Lagoon and SLE Monitoring	Water quality monitoring network in IRL and SLE	
	Manatee Pocket Sediment Study	Treffrey/FIT study of sediments in Manatee Pocket	
	Turbidity/ Seagrass Study	Ecological characteristics and max. growth of seagrasses at a location experiencing colored water discharge and a location removed from the discharge near Ft. Pierce	
	Aerial Photographs	Aerial photographs for preparing seagrass maps	
	Muck Removal Demonstration Project	Evaluate feasibility of removing muck sediments from SLE	
	PAR Study	Smithsonian PAR calibration	
	IRL Seagrass Transects	6 transects identified and markers installed in Sept '94; Jupiter to St. Lucie Inlet	
	IRL Seagrass Transects	6 transects, 2x/yr. St. Lucie to Jupiter Inlet	
	IRL Seagrass Transects	6 transects, 2x/yr. St. Lucie to Jupiter Inlet	
	Seagrass Mapping	Mapping seagrass lagoon-wide from aerial photos and ground truthing	

	Bathymetry	2 year contract to develop IRL bathymetry	
	IRL Seagrass Transects	6 transects, 2x/yr. St. Lucie to Jupiter Inlet	
	<i>Project Name</i>	<i>DESCRIPTION</i>	<i>Funding mechanism</i>
	SLE Monitoring Network	Network revised in '97 (monthly instead of every 2 wks; fewer stations)	
	SLE Nutrient Loading Monitoring	Nutrient/sediment loading monitoring at C-23, C-24, C-25, C-44, 5 and 10-mile cks	
	Aerial Photographs	Aerial photographs for preparing seagrass maps	
	IRL Monitoring Network Evaluation	40 stations monitored quarterly	
	IRL Seagrass Map & Photography	Aerial photographs of the entire lagoon, mapping of seagrasses from photos and ground truthing	
	IRL Seagrass Transects	6 transects, 2x/yr. St. Lucie to Jupiter Inlet, additional monitoring done of transects in 5/98 due to LO. Regulatory releases	
	Seagrass Data Summary	Trend analysis of seagrass maps; summary of transect data; recommendations for future monitoring - particularly for SLE PLRG development	
	IRL Seagrass Map & Photography		SWIM Funding
	St. Lucie Initiative Muck	The St. Lucie River Initiative will explore ways to demuck and find beneficial reuse for muck.	
	Environmental Toxicity in SLE/IRL		SLR Issues Team (SA 00)
	Pesticide Reconnaissance w/in St. Lucie Estuary		SLR Issues Team (SA 00)
	Watershed and Aquatic Research Assessing Key Environmental Issues in the St. Lucie Estuary		SLR Issues Team (SA 00)
	Fish Health Problems in the SLE		SLR Issues Team (SA 00)
	St. Lucie Estuary water quality		SLR Issues Team (SA 01)
	IRL Bathymetry		
Watershed			
	Distribution of Oysters/SAV in the SLE	Past, current, and future distribution of oysters and SAV in the SLE	
	<i>Project Name</i>	<i>DESCRIPTION</i>	<i>Funding mechanism</i>

	Characterization of Agrochemical and Nutrient Loadings in Runoff from Pastures, Golf Courses, and Urban areas in the SLE Basin and N,P, and Metals from citrus and Vegetables		SLR Issues Team (SA 00)
	N, P and Heavy Metals in Surface Water Runoff from Citrus Groves and Vegetable fields in the Indian River Area		SLR Issues Team (SA 00)
	Water Table Management as a BMP for Reducing Discharges from Indian River Citrus Groves		SLR Issues Team (SA 00)
	Citrus and vegetable water quality		SLR Issues Team (SA 01)
	Citrus pesticide BMP		SLR Issues Team (SA 01)
	Golf, urban, pasture water quality		SLR Issues Team (SA 01)
	Water table management as BMP		SLR Issues Team (SA 01)
	Indian River Citrus BMPs for equipment operator and applicators		CES contract #56
	Virginia Avenue Retrofit - Event Monitoring		
	Water Quality/ Sediment Monitoring		
	Watershed Agricultural BMPs	Implementation of Best Management Practices (BMPs) in citrus and vegetable cropping systems in the SLE and IRL region. This effort will document, demonstrate and implement BMP effectiveness at improving surface water quality through the reduction of Nitrogen and Phosphorous.	
<b>Exotic Removal</b>			
Watershed			
	Exotic Removal – Savannas		Local, SWIM, and SFWMD funding
	N. Fork Exotics		SWIM/ WM Lands Trust fund
<b>Habitat Restoration</b>			
Estuary			
	Mosquito Impoundment Restoration	Restoration of FOS impoundment	
	Mosquito Impoundment Restoration	Restoration (culverts, aerators, pumps) in impoundments: 1-9, 10A, 12, 16A, 17A,	
	<i>Project Name</i>	<i>DESCRIPTION</i>	<i>Funding mechanism</i>

	Mosquito Impoundment Restoration	Restoration (culverts, pump upgrades) in impoundments 5, 9, and 16A	
	Mosquito Impoundment Restoration	Restoration (culverts, pump and aeration station; lengthen 2 pumps) of imp. 14B; begin restoration of 10A (40' vinyl seawall; 4 flowways)	
	Mosquito Impoundment Restoration	Impoundments 2, 5, 10A, and others. Wading bird study, topo survey, pump upgrades and extension. Aerator upgrades, convert to dual pump stations, weir, 2 culverts	
	IRL FDEP Mosquito Imp. Restoration	SOW TBD	
	IRL Mangrove Planting	Continue experimental mangrove planting technique (year 3); ID biodegradable materials; evaluate success of first two years of program	
	IRL Wetland Restoration	Reconnect isolated tidal wetlands to lagoon; create tidal pools, plant native species on BLM land near the Jupiter Inlet	
	IRL/SLCMCD Mosquito Imp.	Continue restoration efforts in impoundments 5,6,& 7	
	Mosquito Impoundment Report	Summary of past, current, and future mosquito impoundment restoration projects for SWIM Plan update	
	Mosquito Impoundment Restoration		SWIM Funding
	IRL Mangrove Planting		SWIM Funding
	IRL Wetland Restoration		SWIM Funding
	IRL/SLCMCD Mosquito Imp.		SWIM Funding
	North Fork Restoration		SLR Issues Team (SA 01)
	Oyster Restoration		SLR Issues Team (SA 01)
	Martin Co. Mosquito Control Impoundment Reconnects	Martin co. Mosquito Control will reconnect 4 impoundments on the FOS site	
	IRL Mangroves - Habitat Restoration		SWIM/ WM Lands Trust fund
	IRL Snook Tag- Habitat Restoration		SWIM/ WM Lands Trust
	<i>Project Name</i>	<i>DESCRIPTION</i>	<i>Funding mechanism</i>
	IRL Snook Tag- Habitat Restoration		SWIM/ WM Lands Trust fund
	Mangrove Planting- Habitat Restoration		SWIM/ WM Lands Trust fund
	Mosquito Impoundment Restoration	Restoration of mosquito impoundments along the IRL in both Martin and St. Lucie Co.'s for habitat and water quality improvements.	
	Mosquito Reconnection- Habitat Restoration		SWIM/ WM Lands Trust

			fund
	TNC Shoreline Restoration		SWIM/ WM Lands Trust fund
Watershed			
	Mechanical Harvesting Contract	Removing floating aquatic weeds with conveyor belt machinery	
	Snook License Plate	10 habitat restoration and environmental education projects	
	North Fork Exotic Vegetation Removal	Removal of exotic vegetation on the N. Fork of the St. Lucie River	
	Sim's Creek Habitat Restoration	Exotic removal, shoreline revegetation and wetland creation	
	Snook License Plate	13 Habitat Restoration and Environmental Education Projects	
	Snook License Plate	Habitat Restoration and Environmental Education Projects	
	<i>Project Name</i>	<i>DESCRIPTION</i>	<i>Funding mechanism</i>
	North Fork Habitat Restoration	Restore function of the marshes along the North Fork of the St. Lucie River. Reconnection of isolated mangrove marshes would provide acres of habitat, water attenuation and quality enhancement.	
<b>Stormwater Treatment Area</b>			
Watershed			
	C-44 STA		SLR Issues Team (SA 01)